PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4917168

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sylvie COLENTIER	01/11/2018
Emmanuel KLING	01/09/2018
Georges-Olivier REYMOND	01/12/2018
Sylvain NEGRONI	01/12/2018

RECEIVING PARTY DATA

Name: SAFRAN ELECTRONICS & DEFENSE SAS		
Street Address:	18/20 QUAI DU POINT DU JOUR	
City: BOULOGNE BILLANCOURT		
State/Country:	FRANCE	
Postal Code:	92100	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15547601

CORRESPONDENCE DATA

Fax Number: (703)836-2787

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 703-836-6400 Email: email@oliff.com **Correspondent Name:** R. BRIAN DROZD

OLIFF PLC Address Line 1:

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	177735			
NAME OF SUBMITTER:	CHANDEL VAN LAERE			
SIGNATURE: /Chandel Van Laere/ for R. Brian Drozd				
DATE SIGNED:	04/16/2018			
	This document serves as an Oath/Declaration (37 CFR 1.63).			

Total Attachments: 4

PATENT REEL: 045552 FRAME: 0542

504870428



PATENT REEL: 045552 FRAME: 0543

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

	Insert	(1)	Sylvie COLENTIER	(2)	Emmanuel KLING
(1-8)	Legal Name(s)	(3)	Georges-Olivier REYMOND	(4)	Sylvain NEGRONI
	of Inventor(s)	(5)		(6)	
		(7)		(8)	
	Insert Name of	the un assign	dersigned, the receipt and suffici- , and hereby does assign, transfer	ency of which are larger and set over to	r good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to
(9)	Assignee	(9)	SAFRAN ELECTRONICS &	DEFENSE SAS	
(10)	Insert Address of Assignee	(10)	18/20 quai du Point du Jour, 9	92100 BOULOGN	E BILLANCOURT, France
		the en invent contin	tire right, title and interest for the ion, and in all applications for pa	United States of A tent including any nd reissue applicat	eirs, successors, assigns and legal representatives, tmerica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, ion(s), and all Letters Patent, extensions, reissues invention known as
(11) Insert Identification such as Title, Case		(11)	AIRBORNE EQUIPMENT F	OR DETECTING	SHOOTINGS AND ASSISTING PILOTING
	Number, or Foreign				
	Application Number	(Atto	rney Docket No. 177735), 1	filed on even date herewith or as
(12)	Alternative	(12)	U.S. Application Number		
	Identification for				
	filed applications	filed			

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of **OLIFF PLC** the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

PATENT REEL: 045552 FRAME: 0544 In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	4/01/2018	Inventor Signature	Sylvie COLENTIER Sylvie COLENTIER	_ (SEAL)
Date	3/02/2018	Inventor Signature	Emmanuel KLING	_ (SEAL)
Date		Inventor Signature	Georges-Olivier REYMOND	(SEAL)
Date	12/01/2218	Inventor Signature	Sylvain NEGRONI	_ (SEAL)

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

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	of Inventor(s)	(5)		(6)	
		(7)		(8)	
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(10)	Insert Address of Assignee	(10)	18/20 quai du Point du Jour, 9	92100 BOULOGN	E BILLANCOURT, France
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- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of **OLIFF PLC** the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

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PATENT REEL: 045552 FRAME: 0546 In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _		Inventor Signature	Sylvie COLENTIER	(SEAL)
Date _		Inventor Signature	Emmanuel KLING	(SEAL)
Date _	12th January 2018	Inventor Signature	Georges-Olivier REYMOND	(SEAL)
Date _		Inventor Signature	Sylvain NEGRONI	(SEAL)